What Is Claimed Is:

A compound of Formula I:



in which:

the dashed lines indicate optional unsaturation without violating valency rules:

 R^1 is hydrogen, $(C_{1.6})$ alkyl or $-C(O)R^6$, wherein R^6 is as defined below, or R^1 is absent when a double bond exists between the nitrogen atom to which R^1 is attached and an adjacent ring atom or R^1 is as defined below;

 X^1 is -NR²-, -S-, -S(O)-, -S(O)₂- or -O-, wherein R² is hydrogen or $(C_{1,\bullet})$ alkyl or is absent when a double bond exists between the nitrogen atom to which R² is attached and an adjacent ring atom;

A¹ is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, or A¹ together with R¹ and the atoms to which A¹ and R¹ are attached forms a fused polycyclic ring system selected from heteroaryl and unsaturated, partially unsaturated or saturated heterocycloalkyl in any case containing a total of 10 to 15 ring atoms, wherein A¹ may be substituted with a group selected from -X²R³, -X²OR³, -X²C(O)R³, -X²C(O)R³, -X²C(O)R³, -X²C(O)R³, -X²S(O)R³, -X²S(O)R³, -X²NR³R⁴, -X²NR⁴C(O)R³, and -X²S(O)₂NR³R⁴, wherein X² is a bond or (C_{1-t})alkylene, R³ is -X²R⁵ wherein X² is as defined above and R⁵ is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10

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ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R^4 at each occurrence independently is hydrogen, $(C_{1\text{-6}})$ alkyl or halo-substituted $(C_{1\text{-6}})$ alkyl, wherein each ring within A^1 and R^5 contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from $(C_{1\text{-6}})$ alkyl, cyano, halo, nitro, halo-substituted $(C_{1\text{-6}})$ alkyl, $-X^2$ OR 4 , $-X^2$ C(O)OR 4 , $-X^2$ SC(O)R 6 , $-X^2$ SC(O)R 6 , $-X^2$ OR(O)OR 4 , $-X^2$ SR 4 , $-X^2$ S(O)R 6 , $-X^2$ SC(O)R 6 , $-X^2$ NR 4 C(O)OR 4 , $-X^2$ NR 4 C(O)OR 4 , $-X^2$ NR 4 C(O)NR 4 R 4 , $-X^2$ NR 4 C(O)R 6 , $-X^2$ NR 4 C(O)R 6 , $-X^2$ NR 4 C(O)R 6 , and $-X^2$ S(O)2NR 4 R 4 , wherein X^2 and R^4 are as defined above and R^6 is $(C_{1\text{-6}})$ alkyl or halo-substituted $(C_{1\text{-6}})$ alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A^1 and R^5 may be substituted further with 1 to 2 groups independently selected from $(C_{1\text{-6}})$ alkylidene, oxo, imino and thioxo, with the proviso that only one of A^1 and R^5 is a fused polycyclic ring system;

A2 is a monocyclic or fused bicyclic ring selected from heteroarylene or unsaturated, partially unsaturated or saturated heterocycloalkylene containing a total of 5 to 11 ring atoms, wherein A² may be substituted with a group selected $from - X^2R^8, -X^2OR^8, -X^2C(O)R^8, -X^2OC(O)R^8, -X^2C(O)OR^8, -X^2SR^8, -X^2S(O)R^8, -X^2C(O)R^8, -X^2C$ $-X^2S(O)_0R^8$, $-X^2NR^4R^8$, $-X^2NR^4C(O)R^8$, $-X^2NR^4C(O)OR^8$, $-X^2C(O)NR^4R^8$, -X2NR4C(O)NR4R8, -X2NR4C(NR4)NR4R8, -X2NR4S(O)2R8 and -X2S(O)2NR4R8, wherein X2 is a bond or (C1.6) alkylene, R8 is -X2R9 wherein X2 is as defined above and R9 is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C1.6)alkyl or halo-substituted (C1.6) alkyl, wherein each ring within A2 and R8 contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C1.6)alkyl, cyano, halo, nitro, halo-substituted (C1.6)alkyl, -X2OR4, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_3R^6$, $-X^{2}NR^{4}R^{4}$. $-X^{2}NR^{4}C(O)R^{6}$. $-X^{2}NR^{4}C(O)OR^{4}$. $-X^{2}C(O)NR^{4}R^{4}$.

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 $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(NR^4)NR^4R^4$, $-X^2C(O)NR^4X^2C(O)OR^4$, $-X^2NR^4S(O)_2R^6$ and $-X^2S(O)_2NR^4R^4$, wherein X^2 and R^4 are as defined above and R^6 is $(C_{1:6})$ alkyl or halo-substituted $(C_{1:6})$ alkyl, and wherein any said heterocycloalkylene, carbocycloalkyl and heterocycloalkyl rings within A^2 and R^8 may be substituted further with 1 to 2 groups independently selected from $(C_{1:6})$ alkylidene, oxo, imino and thioxo, with the proviso that only one of A^2 and R^8 is a fused polycyclic ring system; and

A3 is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, wherein A3 may be substituted with a group selected from -X2R9, -X2OR9, -X2C(O)R9, $-X^2OC(O)R^9$, $-X^2C(O)OR^9$, $-X^2SR^9$, $-X^2S(O)R^9$, $-X^2S(O)_2R^9$, $-X^2NR^4R^9$, $-X^2NR^4C(O)R^9$, $-X^2NR^4C(O)OR^9$, $-X^2C(O)NR^4R^9$, $-X^2NR^4C(O)NR^4R^9$, $-X^2NR^4C(NR^4)NR^4R^9$, $-X^2NR^4S(O)_2R^9$ and $-X^2S(O)_2NR^4R^9$, wherein X^2 is a bond or $(C_{1.6})$ alkylene, R^9 is $-X^2R^{10}$ wherein X^2 is as defined above and R^{10} is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C1.6) alkyl or halo-substituted (C1.6) alkyl, wherein each ring within A³ and R¹⁰ contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C16)alkyl, cyano, halo, nitro, halo-substituted ($C_{1.6}$)alkyl, $-X^2OR^4$, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)OR^4$, $-X^2C(O)NR^4R^4$, $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(NR^4)NR^4R^4$, -X2NR4S(O)2R6 and -X2S(O)2NR4R4, wherein X2 and R4 are as defined above and R6 is (C16)alkyl or halo-substituted (C16)alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A3 and R10 may be substituted further with 1 to 2 groups independently selected from (C1-6)alkylidene, oxo, imino and thioxo, with the proviso that only one of A3 and R10 is a fused

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polycyclic ring system; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof;

with the proviso that when said compound is selected from the group consisting of Formulae II(a), II(b) and II(c):

then A3 is other than:

unsubstituted pyridyl;

unsubstituted thienyl;

unsubstituted indolyl;

unsubstituted phenyl;

benzo[1,3]dioxolyl;

2,3-dihydro-benzo[1,4]dioxinyl;

phenyl which is mono-substituted by fluoro, bromo, iodo, nitro, methyl, isopropyl, ethoxy or methylsulfanyl; and

phenyl which is substituted by at least one of chloro, hydroxy or methoxy.

2. The compound of claim 1, and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts of said compound, with the further proviso that A³ is other than:

unsubstituted pyridyl;

unsubstituted thienvl:

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unsubstituted indolyl;

unsubstituted phenyl;

benzo[1,3]dioxolyl;

2,3-dihydro-benzo[1,4]dioxinyl; and

phenyl which is substituted by at least one of halogen, nitro, hydroxy, (C_1, A_2) which is substituted by at least one of halogen, nitro, hydroxy, (C_1, A_2) which is substituted by at least one of halogen, nitro, hydroxy, (C_1, A_2) where (C_1, A_2) is the property of the pr

- 3. The compound of claim 1, and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts of said compound, with the further proviso that A¹ is not 4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl.
- The compound of Claim 1 in which said compound is of Formula I(A):



in which R^1 , A^1 , A^2 and A^3 are as defined in Claim 1; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

 The compound of Claim 4 in which said compound is of Formula I(B):

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in which R^1 , A^1 , A^2 and A^3 are defined as in Claim 1; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

6. The compound of Claim 5 in which said A^2 is 2,3,6,7-tetrahydro-[1,4]thiazepin-5,7-ylene, that is the compound of Formula I(C):



in which A^1 and A^3 are defined as in Claim 1, and said 2,3,6,7-tetrahydro-[1,4]thiazepin-5,7-ylene may be substituted with 1 to 3 groups independently selected from $(C_{1:c})$ alkyl, cyano, halo, nitro, halo-substituted $(C_{1:c})$ alkyl, $-X^2OR^4$, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)R^4R^4$, $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(O)R^4$, $-X^2NR^4S(O)_2R^6$ and $-X^2S(O)_2NR^4R^4$, wherein X^2 is a bond or $(C_{1:c})$ alkylene, R^4 at each occurrence independently is hydrogen, $(C_{1:c})$ alkyl or halo-substituted $(C_{1:c})$ alkyl, and R^6 is $(C_{1:c})$ alkyl or halo-substituted $(C_{1:c})$ alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

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- The compound of Claim 6 in which A1 is 4-hydroxy-6-methyl-7. 2-oxo-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
- 8. The compound of Claim 7 in which said compound is selected from the group consisting of:

4-hydroxy-6-methyl-3-[7-(3-phenyl-1H-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(5-ethyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4hydroxy-6-methyl-pyran-2-one;

3-[7-(1-benzyl-1H-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4hvdroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3[7-(2-trifluoromethylsulfanyl-phenyl)-2,3,6,7tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3[7-(3-trifluoromethylsulfanyl-phenyl)-2,3,6,7tetrahydro-[1,4]thiazepin-5-vl]-pyran-2-one;

4-hvdroxy-6-methyl-3[7-(4-trifluoromethylsulfanyl-phenyl)-2,3,6,7tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-[3-(3-trifluoromethyl-phenoxy)-phenyl]-2,3,6,7tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-[3-(3,4-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-vll-4-hvdroxy-6-methyl-pyran-2-one;

3-[7-[3-(3,5-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hvdroxv-6-methyl-3-{7-[5-(3-trifluoromethyl-phenyl)-furan-2-yl]-2.3.6.7-tetrahydro-[1,4]thiazepin-5-vl}-pyran-2-one;

3-{7-[5-(2-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5yl}-4-hydroxy-6-methyl-pyran-2-one;

 $3-\{7-[5-(3-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

3-{7-[5-(4-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-{7-[5-(2-chloro-5-trifluoromethyl-phenyl)-furan-2-yl]-2.3.6.7-tetrahydro-[1.4]thiazepin-5-yl}-pyran-2-one;

3-[7-(4-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(5-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(1-benzenesulfonyl-1*H*-pyrrol-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(3-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(5-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

 $\label{eq:condition} 4-\mbox{hydroxy-6-methyl-3-}(7-(1-\mbox{methyl-1}H-\mbox{indol-3-yl})-2,3,6,7-\mbox{tetrahydro-}\\ [1,4]\mbox{thiazepin-5-yl}]-\mbox{pyran-2-one};$

3-[7-(3-chloro-2-methyl-5-trifluoromethyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

 $3-\{7-[1-(2,4-difluoro-benzenesulfonyl)-1H-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

3-(7-[2,2']bithienyl-5-yl-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl)-4-hydroxy-6-methyl-pyran-2-one;

 $3-\{7-[1-(3,5-dichloro-phenyl)-1\\ H-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

3-{7-[1-(4-chloro-phenyl)-1*H*-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

 $3-[7-(5-chloro-1 \\ H-indol-3-yl)-2, 3, 6, 7-tetrahydro-[1,4] thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$

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4-hydroxy-6-methyl-3-[7-(6-p-tolylsulfanyl-imidazo[2,1-b]thiazol-5-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(4,5-dibromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(5-methylsulfanyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(5-chloro-1-methyl-3-phenyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(4-dimethylamino-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(4-trifluoromethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(bis-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

 $\label{lem:condition} 4-hydroxy-3-[7-(4-methanesulfonyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one; and$

3-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-methoxy-6-methyl-pyran-2-one;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

- 9. The compound of Claim 6 in which A¹ is 4-hydroxy-6-methyl-2-oxo-5,6-dihydro-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-5,6-dihydro-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
- 10. The compound of Claim 9 in which said compound is selected from the group consisting of:

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- 3-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;
- 3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;
- 3-[7-(4-dimethylamino-phenyl)-2,3,6,7-tetrahydro-1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one; and
- 3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

- 11. The compound of Claim 6 in which A¹ is 2-hydroxy-6-oxo-cyclohex-1-enyl or 2-methoxy-6-oxo-cyclohex-1-enyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
- 12. The compound of Claim 11 in which said compound is selected from the group consisting of:
- 2-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hydroxy-cyclohex-2-enone;
- 2-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hydroxy-cyclohex-2-enone; and
- 3-hydroxy-2-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-cyclohex-2-enone;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

13. The compound of claim 6 in which A¹ is a group of Formula (c):

(c)

in which R^7 is hydrogen or methyl, R^{11} is hydrogen or $(C_{1:6})$ alkyl and the free valence is attached to A^2 ; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

14. The compound of Claim 13 which is:

 $3-[7-2,4-dimethoxy-phenyl)-2,3,6,,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-1\\ \textit{H-quinolin-2-one};$

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

15. The compound of Claim 5 in which said A² is 2,3-dihydrobenzo[b][1,4]thiazepin-5,7-ylene that is the compound-of Formula I(D):

in which A^1 and A^3 are defined as in Claim 1, and said 2,3-dihydrobenzo[b][1,4]thiazepin-5,7-ylene may be substituted with 1 to 3 groups independently selected from (C_{1+6})alkyl, cyano, halo, nitro, halo-substituted (C_{1+6})alkyl, $-X^2OR^4$, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)R^4$, $-X^2C(O)NR^4R^4$, $-X^2NR^4C(O)R^4$, $-X^2NR^4C(O)R^4$, $-X^2C(O)R^4R^4$, wherein X^2 is a bond or (C_{1+6})alkylene, R^4 at each occurrence independently is hydrogen, (C_{1+6})alkyl or halo-substituted (C_{1+6})alkyl, and R^6 is (C_{1+6})alkyl or halo-substituted (C_{1+6})alkyl, and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

- 16. The compound of Claim 15 in which A¹ is 4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
 - 17. The compound of Claim 16 which is:
- $3-[2-(2,4-{\rm diethoxy-phenyl})-2,3-{\rm dihydro-benzo}[b][1,4]{\rm thiazepin-4-yl}]-4-{\rm hydroxy-6-methyl-pyran-2-one};$

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

18. The compound of Claim 15 in which A¹ is 4-hydroxy-6-methyl-2-oxo-5,6-dihydro-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-5,6-dihydro-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

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19. The compound of Claim 18 which is:

4-hydroxy-6-methyl-3-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-5,6-dihydro-pyran-2-one;

and the *N*-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

- 20. The compound of Claim 15 in which A¹ is 2-hydroxy-6-oxo-cyclohex-1-enyl or 2-methoxy-6-oxo-cyclohex-1-enyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
- 21. The compound of Claim 20 in which said compound is selected from the group consisting of:
- 3-hydroxy-2-[2-(2,4-diethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-cyclohex-2-enone; and
- 3-hydroxy-2-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-cyclohex-2-enone;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

 $\label{eq:compound} 22. \qquad \text{The compound of Claim 4 in which said A^2 is a group of Formula} \\ \text{(k):}$

(K)

in which R¹ is defined as in Claim 1 and said group of Formula (k) may be substituted with 1 to 3 groups independently selected from (C₁₋₆)alkyl, cyano, halo, nitro, halo-substituted (C₁₋₆)alkyl, -X²OR⁴, -X²C(O)R⁶, -X²OC(O)R⁶, -X²C(O)OR⁴, -X²SR⁴, -X²S(O)R⁶, -X²S(O)₃R⁶, -X²NR⁴R⁴, -X²NR⁴C(O)R⁶,

- $X^2NR^4C(O)OR^4$, - $X^2C(O)NR^4R^4$, - $X^2NR^4C(O)NR^4R^4$, - $X^2NR^4C(NR^4)NR^4R^4$, - $X^2C(O)NR^4X^2C(O)OR^4$, - $X^2NR^4S(O)_2R^6$ and - $X^2S(O)_2NR^4R^4$, wherein X^2 is a bond or (C_{1-6}) alkylene, R^4 at each occurrence independently is hydrogen, (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl, and R^6 is (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

- 23. The compound of Claim 22 in which R¹ is hydrogen; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
- 24. The compound of Claim 22 in which A¹ is 4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
- 25. The compound of Claim 24 in which said compound is selected from the group consisting of:

3-[4-acetyl-7-(2,4-dimethoxy-phenyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one; and

3-[7-(2,4-dimethoxy-phenyl)-4-(2,2,2-trifluoro-ethanoyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

 ${\bf 26.} \qquad {\bf The\ compound\ of\ Claim\ 22\ in\ which\ A^1\ is\ optionally\ substituted}$ ${\bf phenyl.}$

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27. The compound of Claim 26 which is:

1-[7-(2,4-dimethoxy-phenyl)-5-(3-fluoro-4-methoxyphenyl)-[1,4]thiazepan-4-yl]-ethanone;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

28. The compound of Claim 4 in which said A² is 2,3-dihydro-[1,4]thiazepin-5,7-vlene that is the compound of Formula I(F):

in which A^1 and A^3 are defined as in Claim 1, and said 2,3-dihydro-[1,4]thiazepin-5,7-ylene may be substituted with 1 to 3 groups independently selected from $(C_{1:6})$ alkyl, cyano, halo, nitro, halo-substituted $(C_{1:6})$ alkyl, $-X^2OR^4$, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)R^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)R^4$, $-X^2C(O)NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)R^4$, $-X^2C(O)R^4$, $-X^2C(O)R^4$, $-X^2R^4C(O)R^4$, $-X^2R^4C(O)R^4$, $-X^2R^4C(O)R^4$, at each occurrence independently is hydrogen, $(C_{1:6})$ alkyl or halo-substituted $(C_{1:6})$ alkyl, and R^6 is $(C_{1:6})$ alkyl or halo-substituted $(C_{1:6})$ alkyl, and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

29. The compound of Claim 28 in which A¹ is 4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

- 30. The compound of Claim 29 in which said compound is selected from the group consisting of:
- 3-[7-(2,4-dimethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one; and
- 3-(7-[2,2']bithienyl-5-yl-2,3-dihydro-[1,4]thiazepin-5-yl)-4-hydroxy-6-methyl-pyran-2-one;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

- 31. The compound of Claim 28 in which A¹ is 4-hydroxy-6-methyl-2-oxo-5,6-dihydro-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-5,6-dihydro-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
 - 32. The compound of Claim 31 which is:
- 3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;

and the *N*-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

33. The compound of Claim 28 in which A¹ is 2-hydroxy-6-oxo-cyclohex-1-enyl or 2-methoxy-6-oxo-cyclohex-1-enyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

34. The compound of Claim 33 which is:

2-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-3-hydroxycyclohex-2-enone;

and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

35. The compound of Claim 1 in which said compound is of Formula I(G):

$$R^{1}N$$
 A^{2} $S(O)_{r}$ A^{3}

in which n, R1, A1, A2 and A3 are defined as in Claim 1; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

36. The compound of Claim 35 in which A2 is a group of Formula (1):

in which n, and R1 are defined as in Claim 1 and said group of Formula (1) may be substituted with 1 to 3 groups independently selected from (C16)alkyl, cyano, halo, nitro, halo-substituted (C1.6)alkyl, -X2OR4, -X2C(O)R6, -X2OC(O)R6, $-X^{2}C(O)OR^{4}$, $-X^{2}SR^{4}$, $-X^{2}S(O)R^{6}$, $-X^{2}S(O)R^{6}$, $-X^{2}NR^{4}R^{4}$, $-X^{2}NR^{4}C(O)R^{6}$. $-X^2NR^4C(O)OR^4$, $-X^2C(O)NR^4R^4$, $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(NR^4)NR^4R^4$, -X²C(O)NR⁴X²C(O)OR⁴, -X²NR⁴S(O)₂R⁶ and -X²S(O)₂NR⁴R⁴, wherein X² is a

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bond or (C_{1.6})alkylene, R⁴ at each occurrence independently is hydrogen, (C_{1.6}) 6) alkyl or halo-substituted (C1-6) alkyl, and R6 is (C1-6) alkyl or halo-substituted (C1.6)alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

- 37. The compound of Claim 36 in which n is 1 and A1 is 4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
 - 38 The compound of Claim 37 which is:
- $3-[7-(2,4-dimethoxy-phenyl)-1-oxo-2,3,6,7-tetrahydro-1H-1\lambda^4-$ [1,4]thiazepin-5-yl]-4-hydroxy-6-methoxy-pyran-2-one;

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

- 39. The compound of claim 36 in which n is 2 and A1 is 4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
 - 40. The compound of claim 39 which is:
- $3-[7-(2,4-dimethoxy-phenyl)-1,1-dioxo-2,3,6,7-tetrahydro-1H-1\lambda^{6}-$ [1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

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 $\label{eq:compound} 41. \qquad \text{The compound of Claim 1 in which said compound is of Formula}$ I(D:

$$R^1$$
N A^2 NR^2
 A^1 $I(I)$

in which R¹, R², A¹, A² and A³ are as defined in Claim 1; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

42. The compound of Claim 41 in which said A² is a group of Formula (j):

U)

in which said group of Formula (j) may be substituted with 1 to 3 groups independently selected from (C_{1-6}) alkyl, cyano, halo, nitro, halo-substituted (C_{1-6}) alkyl, $-X^2$ OR 4 , $-X^2$ C(O)R 6 , $-X^2$ OC(O)R 6 , $-X^2$ C(O)OR 4 , $-X^2$ SR 4 , $-X^2$ S(O)R 6 , $-X^2$ NR 4 C(O)R 6 , $-X^2$ NR 4 C(O)R 6 , $-X^2$ NR 4 C(O)NR 4 R 4 , $-X^2$ NR 4 C(O)R 6 , $-X^2$ NR 4 C(O)NR 4 R 4 , $-X^2$ NR 4 C(O)R 6 , at each occurrence independently is hydrogen, (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl, and R 6 is (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

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43. The compound of Claim 42 in which A¹ is 4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl or 4-methoxy-6-methyl-2-oxo-2H-pyran-3-yl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

44. The compound of Claim 43 which is:

3 - [4 - (2, 4 - d i m e t h o x y - p h e n y l) - 4, 5 - d i h y d r o - 3 H - benzo[b][1,4]diazepin-2-yl]-4-hydroxy-6-methylpyran-2-one;

and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

 $\mbox{45.} \qquad \mbox{The compound of Claim 1 in which said compound is of Formula} \label{eq:interpolation} I(K):$

I(K)

in which A³ is defined as in Claim 1; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

46. The compound of claim 45 which is:

 $10-(2,4-dimethoxy-phenyl)-3-methyl-7,8-dihydro-10 \textit{H-}2,5-dioxa-9-thia-} \\ 6a-aza-cyclohepta[a]naphthalene-1,6-dione;$

and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof.

- 47. A compound selected from the group consisting of:
- 4-hydroxy-3-[7-(2-methoxy-4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one;
- 3-[7-(2-chloro-5-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1.4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(4-dimethylamino-2-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 4-hydroxy-3-[7-(4-chloro-2-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one; and
- $\label{lem:condition} 4-hydroxy-3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yll-6-methyl-pyran-2-one; or$
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer and mixtures of stereoisomers; or the pharmaceutically acceptable salt thereof.
 - 48. A compound selected from the group consisting of:
- 7-(2,4-dimethoxy-phenyl)-5-(4-hydroxy-6-methyl-2-oxo-2*H*-pyran-3-yl)-2.2-dimethyl-2.3.6.7-tetrahydro-[1.4]thiazepine-3-carboxylic acid; and
- 2-({1-[7-(2,4-dimethoxy-phenyl)-5-(4-hydroxy-6-methyl-2-oxo-2*H*-pyran-3-yl)-2,2-dimethyl-2,3,6,7-tetrahydro-[1,4]thiazepin-3-yl]-methanoyl}-amino)-propionic acid *tert*-butyl ester;
- and the N-oxide derivatives, prodrug derivatives, protected derivatives; and the pharmaceutically acceptable salts thereof..
- 49. The compound of Claim 1 in which A^1 is a group selected from Formulae (b), (c), (d), (e) and (f):

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$$\begin{array}{cccc}
OR^7 & OR^7 \\
\downarrow & \downarrow & \downarrow & \downarrow \\
OR^7 & \downarrow & \downarrow & \downarrow \\
OR^7 & \downarrow & \downarrow & \downarrow \\
N & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
OR^7 & & & & \\
N & & & & \\
OR^7 & & & \\
OR^7 & & & \\
OR^7 & & & \\
OR^7 & & & & \\
O$$

in which R^7 is hydrogen or methyl, R^{11} is hydrogen or $(C_{1.6})$ alkyl and the free valance is attached to A^2 , or

 A^2 and A^1 together with R^1 and the atoms to which A^1 and R^1 are attached forms a group of Formula (g):

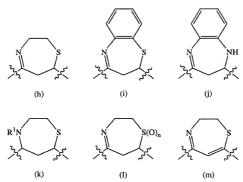
(g)

wherein X1 is -S- and the free valance is attached to A3; and

A² is as defined above or is a monocyclic or fused bicyclic ring selected from heteroarylene or unsaturated, partially unsaturated or saturated heterocycloalkylene containing a total of 5 to 11 ring atoms, wherein A² may be substituted with a group selected from -X²R⁸, -X²OR⁸, -X²C(O)R⁸, -X²OC(O)R⁸,

 $-X^2C(O)OR^8$, $-X^2SR^8$, $-X^2S(O)R^8$, $-X^2S(O)_2R^8$, $-X^2NR^4R^8$, $-X^2NR^4C(O)R^8$. $-X^2NR^4C(O)OR^8$, $-X^2C(O)NR^4R^8$, $-X^2NR^4C(O)NR^4R^8$, $-X^2NR^4C(NR^4)NR^4R^8$. -X2NR4S(O)₂R8 and -X2S(O)₂NR4R8, wherein X2 is a bond or (C, c)alkylene, R8 is -X2R9 wherein X2 is as defined above and R9 is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C1.6) alkyl or halo-substituted (C1.6) alkyl, wherein each ring within A² and R⁸ contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C1.6)alkyl, cyano, halo, nitro, halo-substituted (C_{1.6})alkyl, $-X^2OR^4$, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)OR^4$, $-X^{2}C(O)NR^{4}R^{4}$, $-X^{2}NR^{4}C(O)NR^{4}R^{4}$, $-X^{2}NR^{4}C(NR^{4})NR^{4}R^{4}$. -X2C(O)NR4X2C(O)OR4, -X2NR4S(O)2R6 and -X2S(O)2NR4R4, wherein X2 and R4 are as defined above and R6 is (C1.6)alkyl or halo-substituted (C1.6)alkyl, and wherein any said heteroalkylene, carbocycloalkyl and heterocycloalkyl rings within A2 and R8 may be substituted further with 1 to 2 groups independently selected from (C_{1.6})alkylidene, oxo, imino and thioxo, with the proviso that only one of A² and R⁸ is a fused polycyclic ring system; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

50. The compound of Claim 49 in which A^2 is a group selected from Formulae (h), (i), (j), (k), (l) and (m):



in which n is 1 or 2 and \mathbb{R}^1 is acetyl or trifluoroacetyl or \mathbb{A}^2 and \mathbb{A}^1 together with \mathbb{R}^1 and the atoms to which \mathbb{A}^1 and \mathbb{R}^1 are attached forms a group of Formula (g):

(g)

wherein X^1 is -S- and the free valance is attached to A^3 ; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

51. A compound of Formula II:

in which:

the dashed lines indicate optional unsaturation without violating valency rules;

 R^1 is hydrogen, $(C_{1.6})$ alkyl or $-C(O)R^6$, wherein R^6 is as defined below, or R^1 is absent when a double bond exists between the nitrogen atom to which R^1 is attached and an adjacent ring atom or R^1 is as defined below;

R7 is hydrogen;

 X^1 is -NR²-, -S-, -S(O)-, -S(O)₂- or -O-, wherein R² is hydrogen or $(C_{1,6})$ alkyl or is absent when a double bond exists between the nitrogen atom to which R² is attached and an adjacent ring atom:

 A^2 is a monocyclic or fused bicyclic ring selected from heteroarylene or unsaturated, partially unsaturated or saturated heterocycloalkylene containing a total of 5 to 11 ring atoms, wherein A^2 may be substituted with a group selected from $-R^8$, $-X^2CR^8$, $-X^2CCOR^8$, $-X^2CR^8$, $-X^2CR^8$, $-X^2CCOR^8$, $-X^2CR^8$, $-X^2CCOR^8$, $-X^2CR^8$, $-X^2CCCOR^8$, $-X^2CCCOR^8$, $-X^2CCCOR^8$, $-X^2CCCOR^8$, $-X^2CCOR^8$, $-X^2CCCOR^8$, $-X^2$

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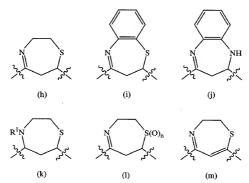
 $-X^2C(O)R^6, -X^2OC(O)R^6, -X^2C(O)OR^4, -X^2SR^4, -X^2S(O)R^6, -X^2S(O)_R^6, -X^2S(O)_R^6, -X^2S(O)_R^6, -X^2S(O)_R^6, -X^2S(O)_R^6, -X^2S(O)_R^6, -X^2S(O)_R^6, -X^2S(O)_R^6, -X^2S(O)_R^4R^4, -X^2S(O)_R^6, -X$

A3 is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, wherein A³ may be substituted with a group selected from -R⁹, -X²OR⁹, -X²C(O)R⁹, -X²OC(O)R⁹ $-X^2C(O)OR^9$, $-X^2SR^9$, $-X^2S(O)R^9$, $-X^2S(O)_2R^9$, $-X^2NR^4R^9$, $-X^2NR^4C(O)R^9$, $-X^2NR^4C(O)OR^9$, $-X^2C(O)NR^4R^9$, $-X^2NR^4C(O)NR^4R^9$, $-X^2NR^4C(NR^4)NR^4R^9$, -X2NR4S(O)₂R9 and -X2S(O)₂NR4R9, wherein X2 is a bond or (C_{1.6})alkylene, R9 is -X²R¹⁰ wherein X² is as defined above and R¹⁰ is anyl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C1.6)alkyl or halo-substituted (C1.6)alkyl, wherein each ring within A³ and R¹⁰ contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C1.6)alkyl, cvano, halo, nitro, halo-substituted (C_{1.6})alkyl, -X²OR⁴, -X²C(O)R⁶, -X²OC(O)R⁶, -X²C(O)OR⁴, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)OR^4$. -X2C(O)NR4R4, -X2NR4C(O)NR4R4, -X2NR4C(NR4)NR4R4, -X2NR4S(O), R6 and -X2S(O),NR4R4, wherein X2 and R4 are as defined above and R6 is (C16)alkyl or halo-substituted (C1-6)alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A3 and R10 may be substituted further with 1 to 2 groups independently selected from (C16) alkylidene, oxo, imino and thioxo with

the proviso that only one of A^3 and R^{10} is a fused polycyclic ring system; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof:

provided, however, Formula II does not represent a compound wherein A^2 is 2,3,6,7-tetrahydro-[1,4]thiazepinylene, 2,3-dihydrobenzo[b][1,4]thiazepinylene or 7-trifluoro-2,3-dihydrobenzo[b][1,4]thiazepinylene and A^3 is benzo[1,3]dioxolyl, indolyl, phenyl, pyridyl or thienyl, wherein said phenyl may be substituted with 1 to 3 groups independently selected from halo, nitro, hydroxy, (C_{14}) alkyl, (C_{14}) alkylsulfanyl and (C_{14}) alkyloxy or any N-oxide derivative; protected derivative, individual stereoisomer or mixture of stereoisomers, or pharmaceutically acceptable salt thereof.

52. The compound of Claim 51 in which A^2 is a group selected from Formulae (h), (j), (k), (l) and (m):



in which n is 1 or 2 and R^1 is acetyl or trifluoroacetyl or A^2 and A^1 together with R^1 and the atoms to which A^1 and R^1 are attached forms a group of Formula (g):

(g)

wherein X^1 is -S- and the free valance is attached to A^3 ; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

- 53. The compound of Claim 52 in which A^3 is phenyl or heteroaryl containing a total of 5 to 9 ring atoms, wherein A^3 may be substituted with a group selected from $-R^9$, $-X^2OR^9$, $-X^2SR^9$ and $-X^2S(O)_2R^9$, wherein R^9 is $-X^2R^{10}$, X^2 is a bond or (C_{1-6}) alkylene and R^{10} is phenyl or heteroaryl containing a total of 5 to 6 ring atoms, wherein each ring within A^3 and R^{10} may be substituted with 1 to 3 groups independently selected from (C_{1-6}) alkyl, halo, halo-substituted (C_{1-6}) alkyl, $-X^2OR^4$, $-X^2SR^4$, $-X^2S(O)_2R^6$ and $-X^2NR^4R^4$, wherein R^4 at each occurrence independently is hydrogen, (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl and R^6 is (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.
- 54. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1, 47 or 51 or a N-oxide derivative, prodrug derivative, individual isomer or mixture of isomers or a pharmaceutically acceptable salt thereof, in combination with a pharmaceutically acceptable excipient.

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- The pharmaceutical composition of Claim 54, further comprising at least one known cancer chemotherapeutic agent.
- 56. The pharmaceutical composition of Claim 55, wherein said cancer therapeutic agent is selected from the group consisting of busulfan, cis-platin, mitomycin C, carboplatin, colchicine, vinblastine, paclitaxel, docetaxel, camptothecin, topotecan, doxorubicin, etoposide, 5-azacytidine, 5-fluorouracil, methotrexate, 5-fluoro-2'-deoxy-uridine, ara-C, hydroxyurea, thioguanine, melphalan, chlorambucil, cyclophosamide, ifosfamide, vincristine, mitoguazone, epirubicin, aclarubicin, bleomycin, imitoxantrone, elliptinium, fludarabine, octreotide, retinoic acid, tamoxifen, Herceptin®, Rituxan® and alanosine.
- 57. A method of treating a disorder responsive to the induction of apoptosis in an animal suffering said disorder, comprising administering to a mammal in need of such treatment an effective amount of a compound of Formula I:



in which:

the dashed lines indicate optional unsaturation without violating valency rules;

 R^1 is hydrogen, $(C_{1.6})$ alkyl or $-C(O)R^6$, wherein R^6 is as defined below, or R^1 is absent when a double bond exists between the nitrogen atom to which R^1 is attached and an adjacent ring atom or R^1 is as defined below;

 X^1 is -NR²-, -S-, -S(O)-, -S(O)₂- or -O-, wherein R² is hydrogen or (C_{16}) alkyl or is absent when a double bond exists between the nitrogen atom to which R² is attached and an adjacent ring atom;

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A1 is a monocyclic or fused polycyclic ring system selected from arvl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, or A1 together with R1 and the atoms to which A1 and R1 are attached forms a fused polycyclic ring system selected from heteroaryl and unsaturated, partially unsaturated or saturated heterocycloalkyl in any case containing a total of 10 to 15 ring atoms, wherein A1 may be substituted with a group selected from -R3, -X2OR3, -X2C(O)R3, $-X^2OC(O)R^3$, $-X^2C(O)OR^3$, $-X^2SR^3$, $-X^2S(O)R^3$, $-X^2S(O)_2R^3$, $-X^2NR^3R^4$, $-X^2NR^4C(O)R^3$, $-X^2NR^4C(O)OR^3$, $-X^2C(O)NR^3R^4$, $-X^2NR^4C(O)NR^3R^4$, -X2NR4C(NR4)NR3R4,-X2NR4S(O),R3 and -X2S(O),NR3R4, wherein X2 is a bond or (C1.6)alkylene, R3 is -X2R5 wherein X2 is as defined above and R5 is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C1.6) alkyl or halo-substituted (C1.6) alkyl, wherein each ring within A1 and R5 contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C16) alkyl, cvano, halo, nitro, halo-substituted (C16)alkyl, -X2OR4, -X2C(O)R6, -X2OC(O)R6, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_5R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)OR^4$, $-X^2C(O)NR^4R^4$, $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(NR^4)NR^4R^4$, -X2NR4S(O)₂R6 and -X2S(O)₂NR4R4, wherein X2 and R4 are as defined above and R⁶ is (C₁₋₆)alkyl or halo-substituted (C₁₋₆)alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A1 and R5 may be substituted further with 1 to 2 groups independently selected from (C1.6)alkylidene, oxo, imino and thioxo, with the provisos that only one of A1 and R5 is a fused polycyclic ring system;

A² is a monocyclic or fused bicyclic ring selected from heteroarylene or unsaturated, partially unsaturated or saturated heterocycloalkylene containing a total of 5 to 11 ring atoms, wherein A² may be substituted with a group selected

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from -R8, -X2OR8, -X2C(O)R8, -X2OC(O)R8, -X2C(O)OR8, -X2SR8, -X2S(O)R8, $-X^2S(O)_2R^8$, $-X^2NR^4R^8$, $-X^2NR^4C(O)R^8$, $-X^2NR^4C(O)OR^8$, $-X^2C(O)NR^4R^8$, -X2NR4C(O)NR4R8, -X2NR4C(NR4)NR4R8, -X2NR4S(O), R8 and -X2S(O), NR4R8, wherein X2 is a bond or (C1.6) alkylene, R8 is -X2R9 wherein X2 is as defined above and R9 is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C16)alkyl or halo-substituted (C14) alkyl, wherein each ring within A2 and R8 contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C16)alkyl, cyano, halo, nitro, halo-substituted (C16)alkyl, -X2OR4, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^{2}NR^{4}R^{4}$, $-X^{2}NR^{4}C(O)R^{6}$, $-X^{2}NR^{4}C(O)OR^{4}$, $-X^{2}C(O)NR^{4}R^{4}$. $-X^{2}NR^{4}C(O)NR^{4}R^{4}$, $-X^{2}NR^{4}C(NR^{4})NR^{4}R^{4}$, $-X^{2}C(O)NR^{4}X^{2}C(O)OR^{4}$. -X2NR4S(O)2R6 and -X2S(O)2NR4R4, wherein X2 and R4 are as defined above and R6 is (C16)alkyl or halo-substituted (C16)alkyl, and wherein any said heterocycloalkylene, carbocycloalkyl and heterocycloalkyl rings within A2 and R8 may be substituted further with 1 to 2 groups independently selected from (C_{1.6})alkylidene, oxo, imino and thioxo, with the proviso that only one of A² and R8 is a fused polycyclic ring system; and

A3 is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, wherein A3 may be substituted with a group selected from -R⁹, -X²OR⁹, -X²C(O)R⁹, -X²OC(O)R⁹, $-X^2C(O)OR^9$, $-X^2SR^9$, $-X^2S(O)R^9$, $-X^2S(O)_2R^9$, $-X^2NR^4R^9$, $-X^2NR^4C(O)R^9$, $-X^2NR^4C(O)OR^9$, $-X^2C(O)NR^4R^9$, $-X^2NR^4C(O)NR^4R^9$, $-X^2NR^4C(NR^4)NR^4R^9$, -X2NR4S(O)₂R9 and -X2S(O)₂NR4R9, wherein X2 is a bond or (C_{1.6})alkylene, R9 is -X²R¹⁰ wherein X² is as defined above and R¹⁰ is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated.

partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C16) alkyl or halo-substituted (C16) alkyl, wherein each ring within A³ and R¹⁰ contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C1.6)alkyl, cyano, halo, nitro, halo-substituted (C_{1.6})alkyl, -X²OR⁴, -X²C(O)R⁶, -X²OC(O)R⁶, -X²C(O)OR⁴, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)OR^4$, -X2C(O)NR4R4, -X2NR4C(O)NR4R4, -X2NR4C(NR4)NR4R4, -X2NR4S(O), R6 and -X2S(O)2NR4R4, wherein X2 and R4 are as defined above and R6 is (C16)alkyl or halo-substituted (C1-6)alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A3 and R10 may be substituted further with 1 to 2 groups independently selected from (C1-6)alkylidene, oxo, imino and thioxo, with the proviso that only one of A³ and R¹⁰ is a fused polycyclic ring system; or an N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers, or a pharmaceutically acceptable salt thereof; with the proviso that when said compound is of Formula II(a):

II(a)

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) phenyl which is mono-substituted by bromo, hydroxy, methyl or isopropyl; and
- (c) phenyl which is substituted by at least one of Cl and methoxy and not substituted by methylsulfanyl, amino, methylamino and dimethylamino
- 58. The method of claim 57, with the further proviso that when said compound is selected from the group consisting of Formula II(a) and II(b):

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) phenyl which is mono-substituted by bromo, nitro, hydroxy, methyl, or isopropyl; and
- (c) phenyl which is substituted by at least one of Cl and methoxy and not substituted by methylsulfanyl, amino, methylamino and dimethylamino
- 59. The method of claim 57, with the further proviso that when said compound is selected from the group consisting of Formula II(a) and II(b):

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) 2,3-dihydro-benzo[1,4]dioxinyl; and
- (c) phenyl which is substituted by at least one of bromo, chloro, hydroxy, nitro, methoxy and (C₁₋₃)alkyl.

 $60. \qquad \text{The method of Claim 57, wherein } A^1 \text{ of said compound is a group} \\$ selected from Formulae (a), (b), (c), (d) and (e):

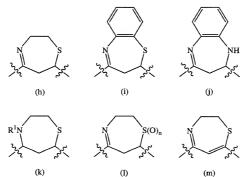
in which R^7 is hydrogen or methyl, R^{11} is hydrogen or (C_{14}) alkyl and the free valance is attached to A^2 , or

 $A^2 \ and \ A^1 \ together \ with \ R^1 \ and \ the \ atoms \ to \ which \ A^1 \ and \ R^1 \ are \ attached$ forms a group of Formula (g):

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wherein X1 is -S- and the free valance is attached to A3; and

A² of said compound is as defined above or is a group selected from Formulae (h), (i), (j), (k), (l) and (m):



in which n is 1 or 2 and \mathbb{R}^1 is acetyl or trifluoroacetyl; or an N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers, or a pharmaceutically acceptable salt thereof.

61. The method of Claim 60, wherein A^3 of said compound is phenyl or heteroaryl containing a total of 5 to 9 ring atoms, wherein A^3 may be substituted with a group selected from $-R^9$, $-X^2OR^9$, $-X^2SR^9$ and $-X^2S(O)_2R^9$, wherein R^9 is $-X^2R^{10}$, X^2 is a bond or $(C_{1:6})$ alkylene and R^{10} is phenyl or heteroaryl containing a total of 5 to 6 ring atoms, wherein each ring within A^3 and R^{10} may be substituted with 1 to 3 groups independently selected from $(C_{1:6})$ alkyl, halo, halo-substituted $(C_{1:6})$ alkyl, $-X^2OR^4$, $-X^2SR^4$, $-X^2S(O)_2R^6$ and $-X^2NR^4R^4$, wherein R^4 at each occurrence independently is hydrogen, $(C_{1:6})$ alkyl or halo-substituted $(C_{1:6})$ alkyl and R^6 is $(C_{1:6})$ alkyl or halo-substituted $(C_{1:6})$ alkyl; and the N-oxide derivatives, prodrug derivatives, protected derivatives, individual stereoisomers and mixtures of stereoisomers; and the pharmaceutically acceptable salts thereof.

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- 62. The method of Claim 61, wherein said compound is selected from the group consisting of:
- 2-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hvdroxy-cyclohex-2-enone:
- 4-hydroxy-3-[7-(4-methanesulfonyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-vl]-6-methyl-pyran-2-one;
- 3-[2-(2.4-diethoxy-phenyl)-2,3-dihydro-benzo[b][1,4]thiazepin-4-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yll-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;
- 3-[7-(4-dimethylamino-phenyl)-2,3,6,7-tetrahydro-1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;
- 2-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hydroxy-cyclohex-2-enone;
- 3-hydroxy-2-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-vl]-cvclohex-2-enone:
- 3-hydroxy-2-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-vl]-cyclohex-2-enone;
- 4-hydroxy-6-methyl-3-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-5,6-dihydro-pyran-2-one; and
- 4-hydroxy-6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-5,6-dihydro-pyran-2-one; or
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.
- 63. The method of claim 57, wherein said compound is selected from the list consisting of:
- 4-hydroxy-6-methyl-3-[7-(4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[4-acetyl-7-(2,4-dimethoxy-phenyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(2,4-dimethoxy-phenyl)-4-(2,2,2-trifluoro-ethanoyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

1-[7-(2,4-dimethoxy-phenyl)-5-(3-fluoro-4-methoxyphenyl)-[1,4]thizepan-4-yl]-ethanone;

4-hydroxy-6-methyl-3-[7-(3-phenyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(5-ethyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(1-benzyl-1H-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3[7-(2-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3[7-(3-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3[7-(4-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-[3-(3-trifluoromethyl-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-[3-(3,4-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-[3-(3,5-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-{7-[5-(3-trifluoromethyl-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-pyran-2-one;

 $3-\{7-[5-(2-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

 $\label{eq:continuous} 3-\{7-[5-(3-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

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3-{7-[5-(4-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-{7-[5-(2-chloro-5-trifluoromethyl-phenyl)-furan-2-yl]-2.3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-pyran-2-one;

3-[7-(4-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(5-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(1-benzenesulfonyl-1H-pyrrol-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(3-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(5-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(1-methyl-1*H*-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(3-chloro-2-methyl-5-trifluoromethyl-1H-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

 $3-\{7-[1-(2,4-difluoro-benzenesulfonyl)-1H-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

3-(7-[2,2'] bithienyl-5-yl-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl)-4-hydroxy-6-methyl-pyran-2-one;

3-{7-[1-(3,5-dichloro-phenyl)-1*H*-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

3-{7-[1-(4-chloro-phenyl)-1*H*-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(5-chloro-1*H*-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(6-p-tolylsulfanyl-imidazo[2,1-b]thiazol-5-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

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3-[7-(4,5-dibromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(2-chloro-5-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1.4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one:

3-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5.6-dihydro-pyran-2-one:

4-hydroxy-6-methyl-3-[7-(5-methylsulfanyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(5-chloro-1-methyl-3-phenyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[4-(2,4-dimethoxy-phenyl)-4,5-dihydro-3*H*-benzo[*b*][1,4]diazepin-2-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(4-dimethylamino-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4hydroxy-6-methyl-pyran-2-one;

 $3-[7-2,4-dimethoxy-phenyl)-2,3,6,,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-1\\ \textit{H-quinolin-2-one};$

 $\label{lem:condition} 4-hydroxy-6-methyl-3-[7-(4-trifluoromethoxy-phenyl)-2,3,6,7-tetrahydro-\\ [1,4]thiazepin-5-yl]-pyran-2-one;$

3-[7-(bis-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(4-dimethylamino-2-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-hydroxy-2-[2-(2,4-diethoxy-pheny1)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-cyclohex-2-enone;

 $3-[7-(2,4-dimethoxy-phenyl)-1-oxo-2,3,6,7-tetrahydro-1H-1\lambda^4-[1,4]thiazepin-5-yl]-4-hydroxy-6-methoxy-pyran-2-one;$

 $10-(2,4-dimethoxy-phenyl)-3-methyl-7,8-dihydro-10 \emph{H-}2,5-dioxa-9-thia-6a-aza-cyclohepta[a]naphthalene-1,6-dione;}$

 $3-[7-(2,4-dimethoxy-phenyl)-1,1-dioxo-2,3,6,7-tetrahydro-1 \\ H-1 \\ \lambda^6-[1,4] thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$

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- 3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-(7-[2,2']bithienyl-5-yl-2,3-dihydro-[1,4]thiazepin-5-yl)-4-hydroxy-6-methyl-pyran-2-one;
- $\hbox{$2-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-3-hydroxy-cyclohex-2-enone; and$
- 3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one; or
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.
- 64. A method of treating a disorder responsive to the induction of apoptosis in an animal suffering said disorder, comprising administering to a mammal in need of such treatment an effective amount of a compound selected from the group consisting of:
- $\label{lem:condition} 4-hydroxy-6-methyl-3-[7-(4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;$
- $\label{eq:continuous} 3-[7-(4-ethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$
- $\label{eq:continuous} 3-[7-(3-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one;$
- 3-[7-(2-bromo-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(2,3-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(3,4-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- $\label{eq:continuous} 6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-\\ [1,4]thiazepin-5-yl]-pyran-2-one;$

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 $\label{eq:control} 6-\text{methyl-3-}(2-p-\text{tolyl-2,3-dihydro-benzo}[b][1,4]\text{thiazepin-4-yl)-pyran-2-one;}$

4-hydroxy-6-methyl-3-[2-(4-methylsulfanyl-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-pyran-2-one; and

3-[7-(2,4-dimethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-3-[7-(4-chloro-2-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one; and

 $\label{lem:condition} 4-hydroxy-3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one; or$

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

65. The method of claim 64, wherein said compound is selected from the group consisting of:

4-hydroxy-6-methyl-3-[7-(4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(3,4-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one; and

 $\label{eq:continuous} 6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one; or$

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

66. A method for treating or preventing cancer, comprising administering to an animal in need of such treatment an effective amount of a compound of Formula I:

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in which:

the dashed lines indicate optional unsaturation without violating valency rules;

 R^1 is hydrogen, $(C_{1.6})$ alkyl or $-C(O)R^6$, wherein R^6 is as defined below, or R^1 is absent when a double bond exists between the nitrogen atom to which R^1 is attached and an adjacent ring atom or R^1 is as defined below;

 X^1 is -NR²-, -S-, -S(O)-, -S(O)₂- or -O-, wherein R² is hydrogen or $(C_{1:6})$ alkyl or is absent when a double bond exists between the nitrogen atom to which R² is attached and an adjacent ring atom;

A1 is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, or A1 together with R1 and the atoms to which A1 and R1 are attached forms a fused polycyclic ring system selected from heteroaryl and unsaturated, partially unsaturated or saturated heterocycloalkyl in any case containing a total of 10 to 15 ring atoms, wherein A1 may be substituted with a group selected from -R3, -X2OR3, -X2C(O)R3, $-X^2OC(O)R^3$, $-X^2C(O)OR^3$, $-X^2SR^3$, $-X^2S(O)R^3$, $-X^2S(O)_2R^3$, $-X^2NR^3R^4$, $-X^2NR^4C(O)R^3$, $-X^2NR^4C(O)OR^3$, $-X^2C(O)NR^3R^4$, $-X^2NR^4C(O)NR^3R^4$, -X2NR4C(NR4)NR3R4,-X2NR4S(O),R3 and -X2S(O),NR3R4, wherein X2 is a bond or (C1.6)alkylene, R3 is -X2R5 wherein X2 is as defined above and R5 is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C1.6) alkyl or halo-substituted (C1.6) alkyl, wherein each ring within A1 and R5 contains from 3 to 8 ring atoms and may be 098365FB 051601

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substituted with 1 to 3 groups independently selected from (C_{1-6}) alkyl, cyano, halo, nitro, halo-substituted (C_{1-6}) alkyl, $-X^2OR^4$, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)R^6$, $-X^2S(O)R^6$, wherein X^2 and X^2 are as defined above and X^2 is (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within X^1 and X^2 may be substituted further with 1 to 2 groups independently selected from (C_{1-6}) alkylidene, oxo, imino and thioxo, with the provisos that only one of X^1 and X^2 is a fused polycyclic ring system;

A2 is a monocyclic or fused bicyclic ring selected from heteroarylene or unsaturated, partially unsaturated or saturated heterocycloalkylene containing a total of 5 to 11 ring atoms, wherein A2 may be substituted with a group selected from -R8, -X2OR8, -X2C(O)R8, -X2OC(O)R8, -X2C(O)OR8, -X2SR8, -X2S(O)R8, $-X^2S(O)_*R^8$, $-X^2NR^4R^8$, $-X^2NR^4C(O)R^8$, $-X^2NR^4C(O)OR^8$, $-X^2C(O)NR^4R^8$, $-X^{2}NR^{4}C(O)NR^{4}R^{8}$, $-X^{2}NR^{4}C(NR^{4})NR^{4}R^{8}$, $-X^{2}NR^{4}S(O)_{2}R^{8}$ and $-X^{2}S(O)_{2}NR^{4}R^{8}$, wherein X2 is a bond or (C1-6)alkylene, R8 is -X2R9 wherein X2 is as defined above and R9 is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C16)alkyl or halo-substituted (C_{1.6})alkyl, wherein each ring within A² and R⁸ contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C, a)alkyl, cvano, halo, nitro, halo-substituted (C, a)alkyl, -X2OR4, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)OR^4$, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)OR^4$, $-X^2C(O)NR^4R^4$, $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(NR^4)NR^4R^4$, $-X^2C(O)NR^4X^2C(O)OR^4$, -X2NR4S(O)2R6 and -X2S(O)2NR4R4, wherein X2 and R4 are as defined above and R6 is (C16)alkyl or halo-substituted (C16)alkyl, and wherein any said heterocycloalkylene, carbocycloalkyl and heterocycloalkyl rings within A^2 and R^8 may be substituted further with 1 to 2 groups independently selected from

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 $(C_{1.6})$ alkylidene, oxo, imino and thioxo, with the proviso that only one of A^2 and R^8 is a fused polycyclic ring system; and

A3 is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, wherein A3 may be substituted with a group selected from -R9, -X2OR9, -X2C(O)R9, -X2OC(O)R9, $-X^2C(O)OR^9$, $-X^2SR^9$, $-X^2S(O)R^9$, $-X^2S(O)_2R^9$, $-X^2NR^4R^9$, $-X^2NR^4C(O)R^9$, $-X^2NR^4C(O)OR^9$, $-X^2C(O)NR^4R^9$, $-X^2NR^4C(O)NR^4R^9$, $-X^2NR^4C(NR^4)NR^4R^9$, -X2NR4S(O)2R9 and -X2S(O)2NR4R9, wherein X2 is a bond or (C1.6)alkylene, R9 is -X2R10 wherein X2 is as defined above and R10 is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C1.6) alkyl or halo-substituted (C1.6) alkyl, wherein each ring within A³ and R¹⁰ contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C1.6)alkyl, cyano, halo, nitro, halo-substituted (C1.6)alkyl, -X2OR4, -X2C(O)R6, -X2OC(O)R6, -X2C(O)OR4, $-X^2SR^4, -X^2S(O)R^6, -X^2S(O)_2R^6, -X^2NR^4R^4, -X^2NR^4C(O)R^6, -X^2NR^4C(O)OR^4, -X^2NR^4C(O)OR$ -X2C(O)NR4R4, -X2NR4C(O)NR4R4, -X2NR4C(NR4)NR4R4, -X2NR4S(O)2R6 and $-X^2S(O)_2NR^4R^4$, wherein X^2 and R^4 are as defined above and R^6 is (C_{1-6}) alkyl or halo-substituted (C14)alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A3 and R10 may be substituted further with 1 to 2 groups independently selected from (C_{1.6})alkylidene, oxo, imino and thioxo, with the proviso that only one of A3 and R10 is a fused polycyclic ring system; or an N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers, or a pharmaceutically acceptable salt thereof; with the proviso that when said compound is of Formula II(a):

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II(a)

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- $\begin{tabular}{ll} (b) & phenyl which is mono-substituted by bromo, hydroxy, methyl or isopropyl; and \end{tabular}$
- (c) phenyl which is substituted by at least one of Cl and methoxy and not substituted by methylsulfanyl, amino, methylamino and dimethylamino; or
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.
- 67. The method of claim 66, with the further proviso that when said compound is selected the group consisting of Formula II(a) and II(b):

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) phenyl which is mono-substituted by bromo, nitro, hydroxy, methyl, or isopropyl; and
- (c) phenyl which is substituted by at least one of Cl and methoxy and not substituted by methylsulfanyl, amino, methylamino and dimethylamino; or

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a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

68. The method of claim 66, with the further proviso that when said compound is selected the group consisting of Formula II(a) and II(b):

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) 2,3-dihydro-benzo[1,4]dioxinyl; and
- (c) phenyl which is substituted by at least one of bromo, chloro, hydroxy, nitro, methoxy and (C_{1,3})alkyl; or
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof
- 69. The method of Claim 66, wherein A¹ of said compound is a group selected from Formulae (a), (b), (c), (d) and (e):

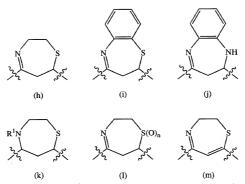
in which R^7 is hydrogen or methyl, R^{11} is hydrogen or (C_{14}) alkyl and the free valance is attached to A^2 , or

 $A^2 \ and \ A^1 \ together \ with \ R^1 \ and \ the \ atoms \ to \ which \ A^1 \ and \ R^1 \ are \ attached$ forms a group of Formula (g):

wherein X1 is -S- and the free valance is attached to A3; and

A² of said compound is as defined above or is a group selected from Formulae (h), (i), (j), (k), (l) and (m):

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in which n is 1 or 2 and \mathbb{R}^1 is acetyl or trifluoroacetyl; or a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

- 70. The method of Claim 69, wherein A^3 of said compound is phenyl or heteroaryl containing a total of 5 to 9 ring atoms, wherein A^3 may be substituted with a group selected from $-R^9$, $-X^2OR^9$, $-X^2SR^9$ and $-X^2S(O)_2R^9$, wherein R^9 is $-X^2R^{10}$, X^2 is a bond or (C_{1-6}) alkylene and R^{10} is phenyl or heteroaryl containing a total of 5 to 6 ring atoms, wherein each ring within A^3 and R^{10} may be substituted with 1 to 3 groups independently selected from (C_{1-6}) alkyl, halo, halo-substituted (C_{1-6}) alkyl, $-X^2OR^4$, $-X^2SR^4$, $-X^2S(O)_2R^6$ and $-X^2NR^4R^4$, wherein R^4 at each occurrence independently is hydrogen, (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl and R^6 is (C_{1-6}) alkyl or halo-substituted (C_{1-6}) alkyl; or a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.
- 71. The method of Claim 70, wherein said compound is selected from the group consisting of:

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4-hydroxy-3-[7-(2-methoxy-4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one;

2-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hvdroxy-cyclohex-2-enone;

4-hydroxy-3-[7-(4-methanesulfonyl-phenyl)-2,3,6,7-tetrahydro-[1.4]thiazepin-5-yl]-6-methyl-pyran-2-one;

3-[2-(2,4-diethoxy-phenyl)-2,3-dihydro-benzo[b][1,4]thiazepin-4-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;

 $3\hbox{-}[7\hbox{-}(4\hbox{-}dimethylamino\hbox{-}phenyl)\hbox{-}2,3,6,7\hbox{-}tetrahydro\hbox{-}1,4]thiazepin\hbox{-}5\hbox{-}yl]\hbox{-}$ 4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;

2-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hvdroxy-cyclohex-2-enone;

3-hydroxy-2-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-cyclohex-2-enone;

3-hydroxy-2-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-cyclohex-2-enone;

4-hydroxy-6-methyl-3-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-5,6-dihydro-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-5,6-dihydro-pyran-2-one; and

3-[7-(2,4-dimethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one; or

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

The method of claim 66, wherein said compound is selected from 72. the list consisting of:

3-[4-acetyl-7-(2,4-dimethoxy-phenyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(2,4-dimethoxy-phenyl)-4-(2,2,2-trifluoro-ethanoyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

1-[7-(2,4-dimethoxy-phenyl)-5-(3-fluoro-4-methoxyphenyl)-[1,4]thizepan-4-yl]-ethanone;

4-hydroxy-6-methyl-3-[7-(3-phenyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yll-pyran-2-one;

3-[7-(5-ethyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(1-benzyl-1*H*-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3[7-(2-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3[7-(3-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3[7-(4-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-[3-(3-trifluoromethyl-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-[3-(3,4-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-[3-(3,5-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-{7-[5-(3-trifluoromethyl-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-pyran-2-one;

 $3-\{7-\{5-(2-chloro-phenyl)-furan-2-yl\}-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

 $3-\{7-[5-(3-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

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3-{7-[5-(4-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-{7-[5-(2-chloro-5-trifluoromethyl-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-pyran-2-one;

3-[7-(4-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(5-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(1-benzenesulfonyl-1*H*-pyrrol-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(3-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1.4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(5-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(1-methyl-1*H*-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

 $3-[7-(3-chloro-2-methyl-5-trifluoromethyl-1 \label{eq:chloro} H-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$

 $3-\{7-[1-(2,4-difluoro-benzenesulfonyl)-1\\ H-pyrrrol-2-yl\}-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

3-(7-[2,2']bithienyl-5-yl-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl)-4-hydroxy-6-methyl-pyran-2-one;

3-{7-[1-(3,5-dichloro-phenyl)-1*H*-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

3-{7-[1-(4-chloro-phenyl)-1*H*-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(5-chloro-1*H*-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

 $\label{eq:condition} 4-hydroxy-6-methyl-3-[7-(6-p-tolylsulfanyl-imidazo[2,1-b]thiazol-5-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;$

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- 3-[7-(4,5-dibromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(2-chloro-5-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1.4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;
- 4-hydroxy-6-methyl-3-[7-(5-methylsulfanyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;
- 3-[7-(5-chloro-1-methyl-3-phenyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3 [4 (2, 4 dimethoxy-phenyl) 4, 5 dihydro-3H-benzo[b][1,4]diazepin-2-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(4-dimethylamino-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-2,4-dimethoxy-phenyl)-2,3,6,,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-1*H*-quinolin-2-one;
- 4-hydroxy-6-methyl-3-[7-(4-trifluoromethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;
- 3-[7-(bis-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- $3-[7-(4-dimethylamino-2-methoxy-phenyl)-2,3,6,7-tetrahydro-\\[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$
- 3-hydroxy-2-[2-(2,4-diethoxy-pheny1)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-cyclohex-2-enone;
- $3-[7-(2,4-dimethoxy-phenyl)-1-oxo-2,3,6,7-tetrahydro-1H-1\lambda^{4}-[1,4]thiazepin-5-yl]-4-hydroxy-6-methoxy-pyran-2-one;$
- 10-(2,4-dimethoxy-phenyl)-3-methyl-7,8-dihydro-10H-2,5-dioxa-9-thia-6a-aza-cyclohepta[a]naphthalene-1,6-dione;
- $3-[7-(2,4-dimethoxy-phenyl)-1,1-dioxo-2,3,6,7-tetrahydro-1\\ H-1\lambda^6-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$

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3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-(7-[2,2']bithienyl-5-yl-2,3-dihydro-[1,4]thiazepin-5-yl)-4-hydroxy-6-methyl-pyran-2-one:

2-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-3-hydroxy-cvclohex-2-enone; and

3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one; or

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof

73. A method for treating or preventing cancer, comprising administering to an animal in need of such treatment an effective amount of a compound selected from the group consisting of:

 $\label{lem:condition} 4-hydroxy-6-methyl-3-[7-(4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-\\[1,4]thiazepin-5-yl]-pyran-2-one;$

3-[7-(4-ethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(3-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one;

3-[7-(2-bromo-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]4-hydroxy-6-methyl-pyran-2-one;

3-[7-(2,3-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]4-hydroxy-6-methyl-pyran-2-one;

3-[7-(3,4-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

 $\label{eq:control} 6\text{-methyl-3-}(2\text{-}p\text{-tolyl-2,3-dihydro-benzo}[b][1,4]\text{thiazepin-4-yl})-pyran-2-one;$

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4-hydroxy-6-methyl-3-[2-(4-methylsulfanyl-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-pyran-2-one;

4-hydroxy-3-[7-(4-chloro-2-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-vl]-6-methyl-pyran-2-one; and

4-hydroxy-3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-vll-6-methyl-pyran-2-one; or

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof

74. The method of claim 73, wherein said compound is selected from the group consisting of:

 $\label{lem:condition} 4-hydroxy-6-methyl-3-[7-(4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-\\ [1,4]thiazepin-5-yl]-pyran-2-one;$

3-[7-(3,4-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one; and

6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one; or

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

75. The method of Claims 66 and 73, wherein said cancer is selected from the group consisting of Hodgkin's disease, non-Hodgkin's lymphoma, acute and chronic lymphocytic leukemias, multiple myeloma, neuroblastoma, breast carcinoma, ovarian carcinoma, lung carcinoma, Wilms' tumor, cervical carcinoma, testicular carcinoma, soft-tissue sarcoma, chronic lymphocytic leukemia, primary macroglobulinemia, bladder carcinoma, chronic granulocytic leukemia, primary brain carcinoma, malignant melanoma, small-cell lung carcinoma, stomach carcinoma, colon carcinoma, malignant pancreatic insulinoma, malignant carcinoma, chroniccarcinoma, mycosis fungoides,

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head and neck carcinoma, osteogenic sarcoma, pancreatic carcinoma, acute granulocytic leukemia, hairy cell leukemia, neuroblastoma, rhabdomyosarcoma, Kaposi's sarcoma, genitourinary carcinoma, thyroid carcinoma, esophageal carcinoma, malignant hypercalcemia, cervical hyperplasia, renal cell carcinoma, endometrial carcinoma, polycythemia vera, essential thrombocytosis, adrenal cortex carcinoma, skin cancer an prostatic carcinoma.

76. A method for the treatment of drug resistant cancer, comprising administering to an animal in need of such treatment an effective amount of a compound of compound of Formula I:



in which:

the dashed lines indicate optional unsaturation without violating valency rules:

 R^1 is hydrogen, $(C_{1.6})$ alkyl or $-C(O)R^6$, wherein R^6 is as defined below, or R^1 is absent when a double bond exists between the nitrogen atom to which R^1 is attached and an adjacent ring atom or R^1 is as defined below;

 X^1 is -NR²-, -S-, -S(O)-, -S(O)₂- or -O-, wherein R² is hydrogen or $(C_{1:6})$ alkyl or is absent when a double bond exists between the nitrogen atom to which R² is attached and an adjacent ring atom;

A¹ is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, or A¹ together with R¹ and the atoms to which A¹ and R¹ are attached forms a fused polycyclic ring system selected from heteroaryl and unsaturated, partially unsaturated or saturated heterocycloalkyl in any case containing a total of 10 to 15 ring atoms, wherein A¹

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may be substituted with a group selected from -R3, -X2OR3, -X2C(O)R3, $-X^2OC(O)R^3$, $-X^2C(O)OR^3$, $-X^2SR^3$, $-X^2S(O)R^3$, $-X^2S(O)_2R^3$, $-X^2NR^3R^4$, $-X^2NR^4C(O)R^3$, $-X^2NR^4C(O)OR^3$, $-X^2C(O)NR^3R^4$, $-X^2NR^4C(O)NR^3R^4$, -X2NR4C(NR4)NR3R4,-X2NR4S(O)2R3 and -X2S(O)2NR3R4, wherein X2 is a bond or (C_{1-6}) alkylene, R^3 is $-X^2R^5$ wherein X^2 is as defined above and R^5 is arvl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C16) alkyl or halo-substituted (C16) alkyl, wherein each ring within A1 and R5 contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C1.6)alkyl, cyano, halo, nitro, halo-substituted (C16)alkyl, -X2OR4, -X2C(O)R6, -X2OC(O)R6, $-X^{2}C(O)OR^{4}$, $-X^{2}SR^{4}$, $-X^{2}S(O)R^{6}$, $-X^{2}S(O)_{5}R^{6}$, $-X^{2}NR^{4}R^{4}$, $-X^{2}NR^{4}C(O)R^{6}$, $-X^2NR^4C(O)OR^4$, $-X^2C(O)NR^4R^4$, $-X^2NR^4C(O)NR^4R^4$, $-X^2NR^4C(NR^4)NR^4R^4$, -X2NR4S(O)2R6 and -X2S(O)2NR4R4, wherein X2 and R4 are as defined above and R⁶ is (C_{1.6})alkyl or halo-substituted (C_{1.6})alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A1 and R5 may be substituted further with 1 to 2 groups independently selected from (C1.6) alkylidene, oxo, imino and thioxo, with the provisos that only one of A1 and R5 is a fused polycyclic ring system;

A² is a monocyclic or fused bicyclic ring selected from heteroarylene or unsaturated, partially unsaturated or saturated heterocycloalkylene containing a total of 5 to 11 ring atoms, wherein A² may be substituted with a group selected from -R*, -X²OR*, -X²C(O)R*, -X²OC(O)R*, -X²C(O)OR*, -X²SR*, -X²S(O)R*, -X²S(O)2R*, -X²NR4R*, -X²NR4C(O)R*, -X²NR4C(O)OR*, -X²C(O)NR4R*, -X²NR4C(O)NR4R*, -X²NR4C(O)R4R*, -X²NR4C(O)R4R*, wherein X² is a bond or (C₁₋₄)alkylene, R* is -X²R* wherein X² is as defined above and R* is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen. (C,)alkyl or

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halo-substituted (C_{1-6}) alkyl, wherein each ring within A^2 and R^8 contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C_{1-6}) alkyl, cyano, halo, nitro, halo-substituted (C_{1-6}) alkyl, $-X^2OR^4$, $-X^2C(O)R^6$, $-X^2OC(O)R^6$, $-X^2C(O)R^6$, $-X^2C(O)R^4$, wherein $-X^2C(O)R^4$, and wherein any said heterocycloalkylene, carbocycloalkyl and heterocycloalkyl rings within $-X^2C(O)R^4$ may be substituted further with 1 to 2 groups independently selected from $-X^2C(C)$ alkylidene, oxo, imino and thioxo, with the proviso that only one of $-X^2$ and $-X^2$ is a fused polycyclic ring system; and

A3 is a monocyclic or fused polycyclic ring system selected from aryl containing a total of 6 to 14 ring atoms, heteroaryl containing a total of 5 to 14 ring atoms and unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 14 ring atoms, wherein A3 may be substituted with a group selected from -R9, -X2OR9, -X2C(O)R9, -X2OC(O)R9, $-X^2C(O)OR^9, -X^2SR^9, -X^2S(O)R^9, -X^2S(O)_7R^9, -X^2NR^4R^9, -X^2NR^4C(O)R^9, -X^2NR^4C(O)R^9, -X^2NR^4C(O)R^9, -X^2NR^4C(O)R^9, -X^2NR^4C(O)R^9, -X^2NR^4C(O)R^9, -X^2NR^4C(O)R^9, -X^2NR^4C(O)R^9, -X^2NR^4R^9, -X^2NR^4C(O)R^9, -X^2NR^4R^9, -X^2NR$ $-X^2NR^4C(O)OR^9$, $-X^2C(O)NR^4R^9$, $-X^2NR^4C(O)NR^4R^9$, $-X^2NR^4C(NR^4)NR^4R^9$, -X2NR4S(O),R9 and -X2S(O),NR4R9, wherein X2 is a bond or (C1.6)alkylene, R9 is $-X^2R^{10}$ wherein X^2 is as defined above and R^{10} is aryl containing a total of 6 to 10 ring atoms, heteroaryl containing a total of 5 to 10 ring atoms or unsaturated, partially unsaturated or saturated carbocycloalkyl or heterocycloalkyl each containing a total of 3 to 10 ring atoms, and R4 at each occurrence independently is hydrogen, (C16) alkyl or halo-substituted (C16) alkyl, wherein each ring within A3 and R10 contains from 3 to 8 ring atoms and may be substituted with 1 to 3 groups independently selected from (C1.6) alkyl, cyano, halo, nitro, halo-substituted (C1.6)alkyl, -X2OR4, -X2C(O)R6, -X2OC(O)R6, -X2C(O)OR4, $-X^2SR^4$, $-X^2S(O)R^6$, $-X^2S(O)_2R^6$, $-X^2NR^4R^4$, $-X^2NR^4C(O)R^6$, $-X^2NR^4C(O)OR^4$, -X2C(O)NR4R4, -X2NR4C(O)NR4R4, -X2NR4C(NR4)NR4R4, -X2NR4S(O), R6 and -X2S(O)2NR4R4, wherein X2 and R4 are as defined above and R6 is (C1.4)alkyl or

halo-substituted ($C_{1:d}$)alkyl, and wherein any said carbocycloalkyl and heterocycloalkyl rings within A^3 and R^{10} may be substituted further with 1 to 2 groups independently selected from ($C_{1:d}$)alkylidene, oxo, imino and thioxo, with the proviso that only one of A^3 and R^{10} is a fused polycyclic ring system; or a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof; with the proviso that when said compound is of Formula $\Pi(a)$:

II(a)

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) phenyl which is mono-substituted by bromo, hydroxy, methyl or isopropyl; and
- (c) phenyl which is substituted by at least one of Cl and methoxy and not substituted by methylsulfanyl, amino, methylamino and dimethylamino; or
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.
- 77. The method of claim 76, with the further proviso that when said compound is selected the group consisting of Formula II(a) and II(b):

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) phenyl which is mono-substituted by bromo, nitro, hydroxy, methyl or isopropyl; and
- (c) phenyl which is substituted by at least one of Cl and methoxy and not substituted by methylsulfanyl, amino, methylamino and dimethylamino; or

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

78. The method of claim 76, with the further proviso that when said compound is selected the group consisting of Formula II(a) and II(b):

then A3 is other than:

- (a) benzo[1,3]dioxolyl;
- (b) 2,3-dihydro-benzo[1,4]dioxinyl; and

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(c) phenyl which is substituted by at least one of bromo, chloro, hydroxy, nitro, methoxy and (C₁₋₃)alky; or

a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof. 1.

79. The method of Claim 76, wherein A^1 of said compound is a group selected from Formulae (a), (b), (c), (d) and (e):

in which R^7 is hydrogen or methyl, R^{11} is hydrogen or $(C_{1:6})$ alkyl and the free valance is attached to A^2 , or

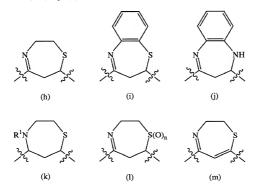
(e)

(d)

 A^2 and A^1 together with R^1 and the atoms to which A^1 and R^1 are attached forms a group of Formula (g):

wherein X1 is -S- and the free valance is attached to A3; and

A² of said compound is as defined above or is a group selected from Formulae (h), (i), (j), (k), (l) and (m):



in which n is 1 or 2 and R^1 is acetyl or trifluoroacetyl; or a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

80. The method of Claim 79, wherein A³ of said compound is phenyl or heteroaryl containing a total of 5 to 9 ring atoms, wherein A³ may be substituted with a group selected from -R°, -X²OR°, -X²SR° and -X²S(O)₂R°,

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wherein R^9 is $-X^2R^{10}$, X^2 is a bond or (C_{1-6}) alkylene and R^{10} is phenyl or heteroaryl containing a total of 5 to 6 ring atoms, wherein each ring within A3 and R10 may be substituted with 1 to 3 groups independently selected from (C16) alkyl, halo, halo-substituted (C_{1.6})alkyl, -X²OR⁴, -X²SR⁴, -X²S(O)₂R⁶ and -X²NR⁴R⁴, wherein R⁴ at each occurrence independently is hydrogen, (C_{1.6})alkyl or halo-substituted (C16) alkyl and R6 is (C16) alkyl or halo-substituted (C16) alkyl; or a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

81. The method of Claim 80, wherein said compound is selected from the group consisting of:

4-hydroxy-3-[7-(2-methoxy-4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one;

2-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hydroxy-cyclohex-2-enone;

4-hvdroxy-3-[7-(4-methanesulfonyl-phenyl)-2.3.6.7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one;

3-[2-(2,4-diethoxy-phenyl)-2,3-dihydro-benzo[b][1,4]thiazepin-4-yl]-4-hvdroxy-6-methyl-pyran-2-one;

3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;

3-I7-(4-dimethylamino-phenyl)-2,3,6,7-tetrahydro-1,4lthiazepin-5-yll-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;

2-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-3-hydroxy-cyclohex-2-enone;

3-hydroxy-2-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-cyclohex-2-enone;

3-hydroxy-2-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-cyclohex-2-enone;

4-hydroxy-6-methyl-3-[2-(2,3,4-trimethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-5,6-dihydro-pyran-2-one;

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2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-5,6-dihydro-pyran-2-one; and

4-hvdroxy-6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-

3-[7-(2,4-dimethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-

a N-oxide derivative, prodrug derivative, protected derivative, individual

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thereof.

The method of claim 76, wherein said compounds.

6-methyl-pyran-2-one; or

82. The method of claim 76, wherein said compound is selected from the list consisting of:

stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt

 $\label{eq:continuous} 3-[4-acetyl-7-(2,4-dimethoxy-phenyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$

3-[7-(2,4-dimethoxy-phenyl)-4-(2,2,2-trifluoro-ethanoyl)-[1,4]thiazepan-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

 $1-[7-(2,4-dimethoxy-phenyl)-5-(3-fluoro-4-methoxyphenyl)-\\[1,4][thizepan-4-yl]-ethanone;$

4-hydroxy-6-methyl-3-[7-(3-phenyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(5-ethyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

 $3-[7-(1-benzyl-1\\H-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$

4-hydroxy-6-methyl-3[7-(2-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3[7-(3-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3[7-(4-trifluoromethylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-[3-(3-trifluoromethyl-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

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3-[7-[3-(3,4-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-[3-(3,5-dichloro-phenoxy)-phenyl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-{7-[5-(3-trifluoromethyl-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-pyran-2-one;

3-{7-[5-(2-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

3-{7-[5-(3-chloro-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

 $3-\{7-[5-(4-chloro-phenyl]-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl\}-4-hydroxy-6-methyl-pyran-2-one;$

4-hydroxy-6-methyl-3-{7-[5-(2-chloro-5-trifluoromethyl-phenyl)-furan-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-pyran-2-one;

 $\label{eq:continuous} 3-[7-(4-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$

3-[7-(5-bromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-[7-(1-benzenesulfonyl-1*H*-pyrrol-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(3-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(5-methyl-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

4-hydroxy-6-methyl-3-[7-(1-methyl-1*H*-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;

3-[7-(3-chloro-2-methyl-5-trifluoromethyl-1*H*-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

3-{7-[1-(2,4-difluoro-benzenesulfonyl)-1*H*-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;

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- 3-(7-[2,2']bithienyl-5-yl-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl)-4hydroxy-6-methyl-pyran-2-one;
- 3-{7-[1-(3,5-dichloro-phenyl)-1*H*-pyrrrol-2-yl]-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;
- $3-\{7-[1-(4-chloro-phenyl)-1H-pyrrrol-2-yl]-2,3,6,7-tetrahydro-$ [1,4]thiazepin-5-yl}-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(5-chloro-1H-indol-3-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4hvdroxy-6-methyl-pyran-2-one;
- 4-hvdroxv-6-methyl-3-[7-(6-p-tolylsulfanyl-imidazo[2,1-b]thiazol-5-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;
- 3-[7-(4,5-dibromo-thien-2-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4hydroxy-6-methyl-pyran-2-one;
- 3-[7-(2-chloro-5-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1.4] thiazepin-5-vll-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(2,4-dimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one;
- 4-hvdroxv-6-methyl-3-[7-(5-methylsulfanyl-thien-2-yl)-2,3,6,7tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;
- 3-[7-(5-chloro-1-methyl-3-phenyl-1H-pyrazol-4-yl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-vl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[4-(2,4-dimethoxy-phenyl)-4,5-dihydro-3Hbenzo[b][1,4]diazepin-2-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(4-dimethylamino-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4hydroxy-6-methyl-pyran-2-one;
- 3-[7-2,4-dimethoxy-phenyl)-2,3,6,,7-tetrahydro-[1,4]thiazepin-5-yl]-4hvdroxv-1H-quinolin-2-one;
- 4-hydroxy-6-methyl-3-[7-(4-trifluoromethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-vl]-pyran-2-one;
- 3-[7-(bis-trifluoromethyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;

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- 3-[7-(4-dimethylamino-2-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one:
- 3-hydroxy-2-[2-(2,4-diethoxy-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-cyclohex-2-enone;
- $3-[7-(2,4-dimethoxy-phenyl)-1-oxo-2,3,6,7-tetrahydro-1H-1\lambda^4-[1,4]thiazepin-5-yl]-4-hydroxy-6-methoxy-pyran-2-one;$
- 10-(2,4-dimethoxy-phenyl)-3-methyl-7,8-dihydro-10H-2,5-dioxa-9-thia-6a-aza-cyclohepta[a]naphthalene-1,6-dione;
- $3-[7-(2,4-dimethoxy-phenyl)-1,1-dioxo-2,3,6,7-tetrahydro-1H-1\lambda^6-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;$
- 3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- $\label{eq:controller} 3-(7-[2,2'] bithienyl-5-yl-2,3-dihydro-[1,4]thiazepin-5-yl)-4-hydroxy-6-methyl-pyran-2-one;$
- 2-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-3-hydroxy-cyclohex-2-enone; and
- 3-[7-(2,4-diethoxy-phenyl)-2,3-dihydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-5,6-dihydro-pyran-2-one; or
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.
- 83. A method for the treatment of drug resistant cancer, comprising administering to an animal in need of such treatment an effective amount of a compound selected from the group consisting of:
- 4-hydroxy-6-methyl-3-[7-(4-methylsulfanyl-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;
- 3-[7-(4-ethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(3-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one;

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- 3-[7-(2-bromo-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]4-hydroxy-6-methyl-pyran-2-one:
- 3-[7-(2,3-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]4-hydroxy-6-methyl-pyran-2-one;
- 3-[7-(3,4-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one;
- 6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one;
- $\label{eq:control} 6-\text{methyl-3-}(2-p-\text{tolyl-2,3-dihydro-benzo[}b][1,4]\text{thiazepin-4-yl)-pyran-2-one;}$
- 4-hydroxy-6-methyl-3-[2-(4-methylsulfanyl-phenyl)-2,3-dihydrobenzo[b][1,4]thiazepin-4-yl]-pyran-2-one;
- 4-hydroxy-3-[7-(4-chloro-2-methoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one; and
- $\label{lem:condition} 4-hydroxy-3-[7-(2,4-diethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-6-methyl-pyran-2-one; or$
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.
- 84. The method of claim 83, wherein said compound is selected from the group consisting of:
- $\label{lem:condition} 4-hydroxy-6-methyl-3-[7-(4-methylsulfanyl-phenyl)-2, 3, 6, 7-tetrahydro-\\ [1,4]thiazepin-5-yl]-pyran-2-one;$
- 3-[7-(3,4-dichloro-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-4-hydroxy-6-methyl-pyran-2-one; and
- 6-methyl-3-[7-(2,3,4-trimethoxy-phenyl)-2,3,6,7-tetrahydro-[1,4]thiazepin-5-yl]-pyran-2-one; or
- a N-oxide derivative, prodrug derivative, protected derivative, individual stereoisomer or mixture of stereoisomers; or a pharmaceutically acceptable salt thereof.

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- 86. The method of Claim 85, wherein said known cancer therapeutic agent is selected from the group consisting of busulfan, cis-platin, mitomycin C, carboplatin, colchicine, vinblastine, paclitaxel, docetaxel, camptothecin, topotecan, doxorubicin, etoposide, 5-azacytidine, 5-fluorouracil, methotrexate, 5-fluoro-2'-deoxy-uridine, ara-C, hydroxyurea, thioguanine, melphalan, chlorambucil, cyclophosamide, ifosfamide, vincristine, mitoguazone, epirubicin, aclarubicin, bleomycin, imitoxantrone, elliptinium, fludarabine, octreotide, retinoic acid, tamoxifen, Herceptin, Rituxan and alanosine.
- 87. The method of Claim 66, 73, 75 or 83, further comprising treating said animal with radiation-therapy.
- 88. The method of Claim 66, 73, 76 or 83, wherein said compound is administered after surgical treatment for cancer.
- The method of Claim 57, wherein said disorder is an autoimmune disease.
- The method of Claim 57, wherein said disorder is rheumatoid arthritis.
- The method of Claim 57, wherein said disorder is inflammation or inflammatory bowel disease.
 - 92. The method of Claim 57, wherein said disorder is psoriasis.
 - 93. The method of Claim 57, wherein said disorder is a skin disease.